



Weston Solutions, Inc.  
Suite 200  
190 Queen Anne Avenue North  
Seattle, Washington 98109-4926  
206-521-7600 • Fax 206-521-7601  
www.westonsolutions.com

1.1.1  
MVSSF

## MEMORANDUM

**Date:** 24 May 2005

**To:** Joanne Labaw, Task Monitor, EPA, Seattle, Washington

**From:** David Dinkuhn, START Field Leader, Weston, Seattle, Washington DLD

**Through:** Greg Stuesse, START Project Manager, Weston, Seattle, Washington MS

**Subject:** Site Recommendations  
Musick Mine Preliminary Assessment/Site Inspection  
Lane County, Oregon

**Ref:** Contract No. 68-S0-01-02  
TDD: 03-11-0003-B  
Weston Work Order No.: 12644-001-002-0153-00  
Document Control No.: 12644-001-002-AAVR

This recommendations memorandum has been prepared for the Musick Mine, a former gold mine located in Lane County, Oregon. This memorandum was prepared as a requirement of a Preliminary Assessment/Site Inspection (PA/SI) conducted at the site. The PA/SI consisted of an evaluation of potential site sources resulting from mining activities and potentially affected targets in the area.

Contaminants of concern identified at the site consist of heavy metals from mining activities and polychlorinated biphenyls (PCBs) from potentially-present electrical equipment. The results of sampling conducted by Weston for this PA/SI show that metals are present in site sources at concentrations significantly above background; PCBs were not detected at the site. Sources identified at the site consist of 1) sediment at one of the three adits on site, 2) surface water at two of the adits, and 3) surface soil from the site's three waste rock piles, a tailings pile, and the former location of a stamp mill. Thirteen metals are present in site sources at concentrations significantly above background, including cadmium, lead, and mercury.

Sediment samples collected from streams draining the mine area contained up to eight metals at concentrations elevated above background and attributable to site sources. The eight metals included cadmium, lead, and mercury, among others. Surface water samples collected from a subset of the sediment sample locations did not contain any metals at elevated concentrations.

Significant exposure threats at the site are presented by 1) a sport fishery located within the surface water pathway 15-mile target distance limit (TDL) down stream of one mine area, and 2) the presence the American peregrine falcon (*Falco peregrinus anatum*), a state-listed endangered

species, and the northern spotted owl (*Strix occidentalis caurina*), a federal-and state-listed threatened species, within the site's 4-mile TDL. In addition, lands within the 4-mile TDL have been designated critical habitat for the spotted owl.

Based on PA/SI sampling data, a review of historical information available and an evaluation of migration pathways, receptors, hazardous substances present in the site sources, and the QuickScore version 2.2 screening tool, further investigation of the Musick Mine under the Comprehensive Environmental Response, Compensation, and Liability Act is not recommended.

If you have any questions or comments regarding this recommendation please contact David Dinkuhn at (206) 521-7637.